# Consensus-derived quality performance indicators for neuroendocrine tumour care

#### **Supplementary Material**

#### **Supplementary Material 1: Literature Search**

Pubmed, Medline (Ovid), Embase and Scopus were searched for key terms as follows.

Pubmed: ("performance indicator" OR "quality indicator" OR "quality of care" OR "quality assurance" OR "quality-related process") AND (neuroendocrine OR carcinoid) which reported 22 records, all of which were excluded.

Medline (ovid): ((Carcinoma, Neuroendocrine/ or Neuroendocrine Tumors/) OR (carcinoid.mp. or Carcinoid Tumor/)) AND (Quality Assurance, Health Care/ or Quality Indicators, Health Care/ or quality indicator.mp. or "Quality of Health Care"/) which reported 10 records, all of which were excluded.

Embase: (health care quality/ or quality indicator.mp. OR quality control/) AND (neuroendocrine tumor/ or gastroenteropancreatic neuroendocrine tumor/ OR neuroendocrine tumor.mp. OR carcinoid/ or stomach carcinoid/ or bronchus carcinoid/ or gastrointestinal carcinoid/) which reported 206 records, all of which were excluded.

Scopus: (TITLE-ABS-KEY ("neuroendocrine tumor") OR TITLE-ABS-KEY (carcinoid) OR TITLE-ABS-KEY (neuroendocrine AND tumour) OR TITLE-ABS-KEY (neuroendocrine AND carcinoma) AND TITLE-ABS-KEY (quality AND indicator) OR TITLE-ABS-KEY (quality AND indicator) OR TITLE-ABS-KEY (quality AND indicator) which reported 470 records, all of which were excluded.

#### **Supplementary Material 2: Participants**

#### Supplementary Table 2.1. 'Round 0' participants.

| Call | ntry |
|------|------|
|      |      |

| Specialty                | Australia | New Zealand | Canada | Total |
|--------------------------|-----------|-------------|--------|-------|
| Endocrinology            | 2         | 2           | 0      | 4     |
| Medical Oncology         | 7         | 1           | 10     | 18    |
| Nuclear Medicine         | 3         | 0           | 2      | 5     |
| Nurse                    | 0         | 1           | 0      | 1     |
| Pathology                | 0         | 0           | 2      | 2     |
| Patient/Patient Advocate | 2         | 0           | 1      | 3     |
| Pharmacist               | 0         | 0           | 1      | 1     |
| Radiation Oncology       | 0         | 0           | 1      | 1     |
| Radiology                | 0         | 1           | 0      | 1     |
| Researcher               | 1         | 1           | 3      | 5     |
| Surgery                  | 0         | 2           | 3      | 5     |

#### Supplementary Table 2.2. 'Round 1' participants.

The Round 1 survey was sent to 237 people (CommNETs members n=147; NZ NET multidisciplinary meeting list n=78; and NZ Ministry of Health Cancer Services n=12).

Participants who completed the survey are presented in the table below. Two participants selected multiple specialties in Round 1: Patient/patient advocate/Doctor and Doctor/Researcher. A single specialty is presented for each participant based on the following prioritisation hierarchy: patient/patient advocate, doctor, nurse, researcher, health policy.

|                          | Country   |             |        |       |
|--------------------------|-----------|-------------|--------|-------|
| Specialty                | Australia | New Zealand | Canada | Total |
| Doctor                   | 26        | 19          | 15     | 60    |
| Nurse                    | 1         | 1           |        | 2     |
| Researcher               |           | 2           |        | 2     |
| Patient/patient advocate | 2         | 2           | 1      | 5     |
| Health Policy            |           | 2           |        | 2     |

#### Supplementary Table 2.3. 'Round 2' expert working group.

| C   |    | 4   |
|-----|----|-----|
| Coi | un | TIV |

| Specialty          | Australia | New Zealand | Canada | Total |  |
|--------------------|-----------|-------------|--------|-------|--|
| Pathologist        |           | 1           |        | 1     |  |
| Surgeon            |           | 1           |        | 1     |  |
| Nuclear Medicine   | 2         |             |        | 2     |  |
| Medical Oncologist | 5         | 2           | 3      | 10    |  |
| Nurse              | 1         |             |        | 1     |  |
| Researcher         |           | 1           |        | 1     |  |
| Patient advocate   |           | 1           |        | 1     |  |

#### **Supplementary Material 3: 'Round 0' methodology**

#### Candidate indicator generation

For each question, participants generated and wrote down candidates in silence. Then each participant stated their idea to their group, and this was transcribed verbatim by the group facilitator onto a large flipchart, without question or discussion. One idea was shared from each person, continuously circling the group until there were no further ideas. Any new ideas generated by this process were also written verbatim. Then the facilitator led group discussion of each candidate. The wording of each candidate was altered only if recommended by the person who generated the idea. Then the flip chart was placed on a wall, and each group member attached a sticker to select the top five candidates from the work of their group. The five indicators from each group with the most stickers were selected to take forward into the Delphi consensus process.

#### Candidate indicator curation

Candidates related to the same aspect of the patient journey were organised to create appropriateness statements using a hierarchical structure; a parent statement referred to the major concept (e.g., Survival after diagnosis ... ...), sometimes followed by sub-statements that further defined the parent statement in a checkbox format (e.g., ... ... Overall survival, Disease-free survival, Disease control rate, Progression free survival"; and then for this example a further set of checkboxes ... ... at 1 year, 2 years, 3 years, 4 years, 5 years, 6 years, 7 years, 8 years, 9 years, 10 years from diagnosis). The sub-statements were always descriptors of the parent appropriateness statement, so if the parent statement was not rated as important or measurable, then neither were the accompanying sub-statements. The substatements aimed to encourage direct comparison and to reduce the time taken to complete the Round 1 survey. In some cases, a parent statement was created de novo to improve the structure of the questionnaire (e.g., Measurement of quality of life...) to allow grouping of similar sub-statements that could be compared using checkboxes (e.g., Which of the following measures of quality of life ... ... Quality of life measured at diagnosis, Performance status measured at diagnosis, Quality of life monitoring, Regular assessment of symptom control). After this curation, appropriateness statements and sub-statements were taken forward to Round 1 for rating (see Figure 1 and Supplementary Material 4).

#### Supplementary Material 4: 'Round 1' Online Survey

Online Survey

Survey Monkey<sup>®</sup> was used to present appropriateness statements and record ratings and feedback. The first page collected information about the participant. An introductory page included links to short descriptions of the background, method, and instructions. A glossary was provided by hyperlink from the first time a defined word was used in the survey. The order of appropriateness statements was similar to the chronology of the patient journey. Similar indicators were grouped on the same page. Participants separately rated the *importance* of each statement, and the *measurability* of each statement.

The survey was sent to all CommNETs members; NZ NET multidisciplinary meeting list; and NZ Ministry of Health Cancer Services (Supplementary Material 2). Some participants forwarded the survey link to their own NET clinical communities. From the time the initial survey invitation was circulated, each person received at least two email reminders before closure of the survey.

### Below are the statements as presented in the 'Round 1' survey.

| Statement number | Statement   | Answer options for sub-statements (checkbox format) |
|------------------|---|---|
| 1                | Country (required)  |   |
| 2                | State/Province (required)   |   |
| 3                | Primary Professional Role (required)  | Doctor  |
|                  |   | Nurse   |
|                  |   | Another clinical role                               |
|                  |   | Researcher  |
|                  |   | Patient/Patient advocate                            |
|                  |   | Health Policy                                       |
|                  |   | Other (please specify)                              |
| 4                | Name (preferred, but optional)  | ,             |
| 5                | Email Address (preferred, but optional)   |   |
| 6                | NET primary site is required to robustly interpret each indicator of NET care quality                                       |   |
| 7                | NET tumour stage is required to robustly interpret each indicator of NET care quality                                       |   |
| 8                | NET tumour grade is required to robustly interpret each indicator of NET care quality                                       |   |
| 9                | Do you have any additional comments? (not required)   |   |
| 10               | Survival after diagnosis is an important and measurable indicator of NET care quality                                       |   |
| 11               | Which measures of survival are the most important indicators of NET care quality? Please choose two.                        | Overall survival                                    |
|                  |   | Disease-free survival                               |
|                  |   | Disease control rate                                |
|                  |   | Progression free survival                           |
| 12               | Which measures of survival are the most measurable indicators of NET care quality? Please choose two.                       | Overall survival                                    |
|                  |   | Disease-free survival                               |
|                  |   | Disease control rate                                |
|                  |   | Progression free survival                           |
| 13               | Which time points are most appropriate to measure survival? Please choose three.  | 1 year from diagnosis                               |
|                  |   | 2 years from diagnosis                              |
|                  |   | 3 years from diagnosis                              |
|                  |   | 4 years from diagnosis                              |
|                  |   | 5 years from diagnosis                              |
|                  |   | 6 years from diagnosis                              |
|                  |   | 7 years from diagnosis                              |
|                  |   | 8 years from diagnosis                              |
|                  |   | 9 years from diagnosis                              |
|                  |   | 10 years from diagnosis                             |
|                  |   | 15 years from diagnosis                             |
|                  |   | 20 years from diagnosis                             |
| 14               | Documentation of cause of death for patients who die from NETs is an important and measurable indicator of NET care quality |   |
| 15               | Do you have any additional comments? (not required)   |   |
| 16               | Patient reported quality of life is an important and measurable indicator of NET care quality                               |   |

| Emotional wellbeing Functional status Symptoms Satisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes Physical wellbeing quality? Please choose three.  Which aspects of patient reported quality of life are the most measurable indicators of NET care quality? Please choose three.  Encotoral wellbeing Emotional wellbeing Emotiona | 17 | Which aspects of patient reported quality of life are the most important indicators of NET care quality? Please choose three.   | Physical wellbeing                           |
|--|----|---|--|
| Emotional wellbeing Functional status Symptoms Satisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes Physical wellbeing quality? Please choose three.  Which aspects of patient reported quality of life are the most measurable indicators of NET care quality? Please choose three.  Encotoral wellbeing Emotional wellbeing Emotiona |    |   | Financial toxicity                           |
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| Salisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes monitoring Toxicity of treatment measured by patient reported outcomes provided in the provided outcomes of the provided indicators of NET care quality? Please choose three.  Which aspects of patient reported quality of life are the most measurable indicators of NET care and physical wellbeing Financial toxicity Emotional wellbeing Functional status Symptoms Satisfaction of care Indicator of NET care quality Do you have any additional comments? (not required) Toxicity of treatment measured by patient reported outcomes  19 Do you have any additional comments? (not required) Toxicity of treatment measured by patient reported outcomes  19 Do you have any additional comments? (not required) Toxicity of treatment measured by patient reported outcomes  10 Surrogates for quality of life are important and measurable indicator of NET care quality? Please choose one.  10 Hospital admission Hospital ad |    |   | Functional status                            |
| Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Physical wellbeing   Financial toxicity   Emotional status   Symptoms   Satisfaction of care   Sustraction of variety of treatment measured by patient reported outcomes   Physical wellbeing   Emotional status   Emotional wellbeing   Functional status   Symptoms   Satisfaction of care   Sustraction of variety   Symptoms   Satisfaction of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Patient reported outcome monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Patient    |    |   | Symptoms                                     |
| Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Physical wellbeing   Financial toxicity   Emotional status   Symptoms   Satisfaction of care   Sustraction of variety of treatment measured by patient reported outcomes   Physical wellbeing   Emotional status   Emotional wellbeing   Functional status   Symptoms   Satisfaction of care   Sustraction of variety   Symptoms   Satisfaction of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Patient reported outcome monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Patient    |    |   | Satisfaction of care                         |
| Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Toxicity of treatment measured by patient reported outcomes   Physical wellbeing   Physical wellbeing   Financial toxicity   Financial toxicity   Financial toxicity   Financial toxicity   Functional status   Protectional status   Symptomes   Satisfaction of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Patient reported outcomes   Patient r   |    |   |  |
| Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Toxicity of treatment measured by patient reported outcomes   Physical wellbeing   Physical wellbeing   Financial toxicity   Financial toxicity   Financial toxicity   Financial toxicity   Functional status   Protectional status   Symptomes   Satisfaction of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Patient reported outcomes   Patient r   |    |   | Edmonton Symptom Assessment Scale monitoring |
| Toxicity of treatment measured by patient reported outcomes   Physical wellbeing   Physical wellbeing   Physical wellbeing   Emotional wellbeing   Emotional wellbeing   Emotional wellbeing   Emotional status   Symptoms   Satisfaction of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome south of care   Disability   Edmonton Symptom Assessment Scale monitoring   Patient reported outcome monitoring   Patient reported outcome monitoring   Patient reported outcome monitoring   Toxicity of treatment measured by patient reported outcomes   Patient reported outcome monitoring   Patient reported by patient reported outcomes   Patient reported outcome monitoring   Patient reported patient reported   Patient   |    |   |  |
| Which aspects of patient reported quality of life are the most measurable indicators of NET care principal wellbeing provided provided by a special status and the provided provided by a special status and the provided by a statistical of care and the provided by a statistical of care and the provided by a statistical status and the provided by a statisti |    |   |  |
| Emotional wellbeing Functional wellbeing Functional status Symptoms Satisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  Do you have any additional comments? (not required) Surrogates for quality of life are important and measurable indicators of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life? Please choose three.  1 year from diagnosis and surrogates for quality of life? Please choose three.  1 year from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 9 years from diagnosis 10 years from diagnosis 10 years from diagnosis 10 years from diagnosis 10 years from diagnosis 15 years from diagnosis  | 18 |   |  |
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| Symptoms Statisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  19 Do you have any additional comments? (not required)  20 Surrogates for quality of life are important and measurable indicators of NET care quality 21 Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  22 Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  23 Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life?) Please choose three.  23 Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life?) Please choose three.  24 Lyear from diagnosis 25 Lyears from diagnosis 4 Lyears from diagnosis 5 Lyears from diagnosis 6 Lyears from diagnosis 7 Lyears from diagnosis 8 Lyears from diagnosis 9 Lyears from diagnosis 10 Lyears from diagnosis 10 Lyears from diagnosis 11 Lyears from diagnosis 12 Lyears from diagnosis 13 Lyears from diagnosis 14 Lyears from diagnosis 15 Lyears from diagnosis   |    |   | Emotional wellbeing                          |
| Satisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  Surrogates for quality of life are important and measurable indicators of NET care quality Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission Unplanned hospital admissions  ED attendance  Hospital admission Unplanned hospital admissions  I upplanned hospital admissions  I year from diagnosis  2 years from diagnosis  1 year from diagnosis  2 years from diagnosis  3 years from diagnosis  4 years from diagnosis  5 years from diagnosis  7 years from diagnosis  8 years from diagnosis  7 years from diagnosis  9 years from diagnosis  10 years from diagnosis  10 years from diagnosis  10 years from diagnosis  |    |   | Functional status                            |
| Satisfaction of care Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  Surrogates for quality of life are important and measurable indicators of NET care quality Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission Unplanned hospital admissions  ED attendance  Hospital admission Unplanned hospital admissions  I upplanned hospital admissions  I year from diagnosis  2 years from diagnosis  1 year from diagnosis  2 years from diagnosis  3 years from diagnosis  4 years from diagnosis  5 years from diagnosis  7 years from diagnosis  8 years from diagnosis  7 years from diagnosis  9 years from diagnosis  10 years from diagnosis  10 years from diagnosis  10 years from diagnosis  |    |   | Symptoms                                     |
| Disability Edmonton Symptom Assessment Scale monitoring Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes Toxicity of treatment measured by patient reported outcomes  Surrogates for quality of life are important and measurable indicators of NET care quality Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality of NET c |    |   |  |
| Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  19 Do you have any additional comments? (not required) 20 Surrogates for quality of life are important and measurable indicators of NET care quality 21 Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  22 Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  23 Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  4 Hospital admission 4 Unplanned hospital admission 4 Unplanned hospital admission 5 Unplanned hospital admission 6 Very find diagnosis 7 years from diagnosis 9 years from diagnosis 1 years from diagnosis  |    |   |  |
| Patient reported outcome monitoring Toxicity of treatment measured by patient reported outcomes  19 Do you have any additional comments? (not required) 20 Surrogates for quality of life are important and measurable indicators of NET care quality 21 Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  22 Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  23 Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  4 Hospital admission 4 Unplanned hospital admission 4 Unplanned hospital admission 5 Unplanned hospital admission 6 Very find diagnosis 7 years from diagnosis 9 years from diagnosis 1 years from diagnosis  |    |   | Edmonton Symptom Assessment Scale monitoring |
| Toxicity of treatment measured by patient reported outcomes  Do you have any additional comments? (not required)  Surrogates for quality of life are important and measurable indicators of NET care quality  Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission  Unplanned hospital admission  Validation of NET care quality of life are part of the following surrogates for quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 9 years from diagnosis 10 years from diagnosis 10 years from diagnosis 10 years from diagnosis 10 years from diagnosis 11 years from diagnosis 12 years from diagnosis 13 years from diagnosis 14 years from diagnosis 15 years from diagnosis 15 years from diagnosis 15 years from diagnosis 15 years from diagnosis   |    |   |  |
| Do you have any additional comments? (not required)  Surgates for quality of life are important and measurable indicators of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 10 years from diagnosis 15 years from diagnosis 15 years from diagnosis   |    |   |  |
| Surrogates for quality of life are important and measurable indicators of NET care quality  Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission  Unplanned hospital admissions  Unplanned hospital admissions  Unplanned hospital admissions  1 year from diagnosis  2 years from diagnosis  2 years from diagnosis  3 years from diagnosis  4 years from diagnosis  5 years from diagnosis  5 years from diagnosis  7 years from diagnosis  8 years from diagnosis  9 years from diagnosis  10 years from diagnosis  15 years from diagnosis  15 years from diagnosis   | 19 | Do you have any additional comments? (not required)   |  |
| Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please choose one.    Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.    Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.    Hospital admission   Unplanned hospital admission   Unplanned hospital admissions   Unplanned hospital admissions   Unplanned hospital admissions   Variable of the properties of t   |    | Surrogates for quality of life are important and measurable indicators of NET care quality  |  |
| Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission Unplanned hospital admissions Unplanned hospital admissions Unplanned hospital admissions At diagnosis At diagnosis  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 11 years from diagnosis 15 years from diagnosis  |    | Which of the following surrogates for quality of life is the most important indicator of NET care quality? Please   | ED attendance                                |
| Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission Unplanned hospital admissions Unplanned hospital admissions Unplanned hospital admissions At diagnosis At diagnosis  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 11 years from diagnosis 15 years from diagnosis  |    |   | Hospital admission                           |
| Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  Hospital admission Unplanned hospital admissions  Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 11 years from diagnosis 15 years from diagnosis 17 years from diagnosis 18 years from diagnosis 19 years from diagnosis 15 years from diagnosis 15 years from diagnosis   |    |   |  |
| Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis   | 22 | Which of the following surrogates for quality of life is the most measurable indicator of NET care quality? Please choose one.  |  |
| Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis  |    |   |  |
| and surrogates for quality of life)? Please choose three.  1 year from diagnosis 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 5 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis   |    |   |  |
| 2 years from diagnosis 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis  | 23 | Which time points are the most appropriate to measure quality of life (including patient reported quality of life and surrogates for quality of life)? Please choose three. | At diagnosis                                 |
| 3 years from diagnosis 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis   |    |   | 1 year from diagnosis                        |
| 4 years from diagnosis 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis  |    |   |  |
| 5 years from diagnosis 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis   |    |   |  |
| 6 years from diagnosis 7 years from diagnosis 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis  |    |   |  |
| 7 years from diagnosis  8 years from diagnosis  9 years from diagnosis  10 years from diagnosis  15 years from diagnosis   |    |   | 5 years from diagnosis                       |
| 7 years from diagnosis  8 years from diagnosis  9 years from diagnosis  10 years from diagnosis  15 years from diagnosis   |    |   |  |
| 8 years from diagnosis 9 years from diagnosis 10 years from diagnosis 15 years from diagnosis  |    |   |  |
| 10 years from diagnosis 15 years from diagnosis  |    |   |  |
| 10 years from diagnosis 15 years from diagnosis  |    |   | 9 years from diagnosis                       |
| 15 years from diagnosis  |    |   |  |
|  |    |   |  |
|  |    |   | 20 years from diagnosis                      |

| 24 | Do you have any additional comments? (not required)   |   |
|----|---|---|
| 25 | Measurement of quality of life is an important and measurable indicator of NET care quality   |   |
| 26 | Which of the following measures of quality of life are the most important indicators of NET care quality? Please choose two.                                      | Quality of life measured at diagnosis   |
|    |   | Performance status measured at diagnosis (e.g. ECOG performance score or Karnofsky score) |
|    |   | Quality of life monitoring  |
|    |   | Regular assessment of symptom control   |
| 27 | Which of the following measures of quality of life are the most measurable indicators of NET care quality? Please choose two.                                     | Quality of life measured at diagnosis   |
|    |   | Performance status measured at diagnosis (e.g. ECOG performance score or Karnofsky score) |
|    |   | Quality of life monitoring  |
|    |   | Regular assessment of symptom control   |
| 28 | Proportion of patients who report they are NET symptom-free at 18 months using symptom questionnaire is an important and measurable indicator of NET care quality |   |
| 29 | Proportion of patients with functional symptom control is an important and measurable indicator of NET care quality   |   |
| 30 | Proportion of patients with non-functional symptom control is an important and measurable indicator of NET care quality   |   |
| 31 | Do you have any additional comments? (not required)   |   |
| 32 | Proportion of NET patients diagnosed with carcinoid heart disease (using echocardiogram) is an important and measurable indicator of NET care quality             |   |
| 33 | Proportion of carcinoid patients who have cardiac imaging is an important and measurable indicator of NET care quality  |   |
| 34 | Which time points are the most appropriate to look for carcinoid heart disease? Please choose three.  | At diagnosis  |
|    |   | 1 year from diagnosis   |
|    |   | 2 years from diagnosis  |
|    |   | 3 years from diagnosis  |
|    |   | 4 years from diagnosis  |
|    |   | 5 years from diagnosis  |
|    |   | 6 years from diagnosis  |
|    |   | 7 years from diagnosis  |
|    |   | 8 years from diagnosis  |
|    |   | 9 years from diagnosis  |
|    |   | 10 years from diagnosis   |
|    |   | 15 years from diagnosis   |
|    |   | 20 years from diagnosis   |
| 35 | Do you have any additional comments? (not required)   |   |
| 36 | Proportion of patients receiving a needs assessment is an important and measurable indicator of NET care quality  |   |
| 37 | Proportion of patients receiving a care plan is an important and measurable indicator of NET care quality   |   |
| 38 | Proportion of patients receiving a treatment summary is an important and measurable indicator of NET care quality   |   |
| 39 | Proportion of patients offered allied health services is an important and measurable indicator of NET care quality  |   |
|    |   |   |

| 40 | Described the Control of the Control |   |
|----|--|---|
| 40 | Proportion of patients offered patient support groups is an important and measurable indicator of NET care quality   |   |
| 41 | Do you have any additional comments? (not required)  |   |
| 42 | The time interval until treatment is started is an important and measurable indicator of NET care quality  |   |
| 43 | Which of the following time intervals, are the most important indicators of NET care quality? Please choose two.   | Time from diagnosis to first treatment                |
|    |  | Time from diagnosis to treatment plan                 |
|    |  | Time from diagnosis to decision to treat              |
|    |  | Time from decision to treat to definitive treatment   |
| 44 | Which of the following time intervals, are the most measurable indicators of NET care quality? Please choose two.  | Time from diagnosis to first treatment                |
|    |  | Time from diagnosis to treatment plan                 |
|    |  | Time from diagnosis to decision to treat              |
|    |  | Time from decision to treat to definitive treatment   |
| 45 | The time interval from first doctors visit with symptoms of NET, to diagnosis of NET is an important and measurable indicator of NET care quality  |   |
| 46 | Which of the following time intervals are the most important indicators of NET care quality? Please choose three.  | Time from presentation to NET diagnosis               |
|    |  | Time from presentation to any specialist referral     |
|    |  | Time from presentation to NET specialist referral     |
|    |  | Time from symptoms to NET diagnosis                   |
|    |  | Time from initial symptoms to any specialist referral |
|    |  | Time with "symptoms misdiagnosis"                     |
|    |  | Number of GP visits                                   |
|    |  | Number of health assessments                          |
|    |  | Number of medical contacts                            |
|    |  | Other (please specify)                                |
| 47 | Which of the following time intervals are the most measurable indicators of NET care quality? Please choose three.   | Time from presentation to NET diagnosis               |
|    |  | Time from presentation to any specialist referral     |
|    |  | Time from presentation to NET specialist referral     |
|    |  | Time from symptoms to NET diagnosis                   |
|    |  | Time from initial symptoms to any specialist referral |
|    |  | Time with "symptoms misdiagnosis"                     |
|    |  | Number of GP visits                                   |
|    |  | Number of health assessments                          |
|    |  | Number of medical contacts                            |
| 48 | Do you have any additional comments? (not required)  |   |
| 49 | Proportion of patients with surgical consultation for consideration of resection is an important and measurable indicator of NET care quality  |   |
| 50 | Proportion of patients getting resection is an important and measurable indicator of NET care quality  |   |
| 51 | Proportion of patients who receive surgery with curative intent is an important and measurable indicator of NET care quality   |   |
| 52 | Proportion patients who receive non-curative surgery is an important and measurable indicator of NET care quality  |   |
| 53 | Do you have any additional comments? (not required)  |   |
|    |  |   |

| Which of the following measures of surgical quality are the most important indicators of NET care quality? Please choose two.  Which of the following measures of surgical quality are the most measurable indicators of NET care quality at 30 days after surgery  Mortality at 30 days a | 54 | Assessment of surgical quality is an important and measurable indicator of NET care quality            |  |
|--|----|--|--|
| Median length of stay following metastatic resection Morality at 30 days after surgery Morality at 30 days after surgery Morality at 30 days after surgery Median length of stay following primary resection Morality at 30 days after surgery Median length of stay following primary resection Median length of stay following primary resection Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Median length of stay following metastatic resection Morality at 30 days after surgery Appropriate surgery Appropriate clinical assessment Appropriate clinical assessment Appropriate functional assessment A | 55 | Which of the following measures of surgical quality are the most important indicators of NET care      | Median length of stay following primary resection                  |
| Mortality at 90 days after surgery Median length of stay following primary resection Median length of stay following primary stay for stay following primary resection Median length of stay following primary escripts the following primary essension Appropriate clinical assessment Appropriate clinical assessment Appropriate clinical assessment Appropriate clinical assessment Appropriate functional assessment Appropriate functional assessment Appropriate residological assessment Appropriate rediological as |    |  | Median length of stay following metastatic resection               |
| Which of the following measures of surgical quality are the most measurable indicators of NET care quality? Please choose two.  Median length of stay following metastatic resection Mortality at 30 days after surgery  The quality of pre-operative assessment is the most important and measurable indicator of NET care quality? Please choose one. Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one. Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Complete pre-operative TMM staging is an important and measurable indicator of NET care quality Complete pre-operative TMM staging is an important and measurable indicator of NET care quality Complete post-operative TMM staging is an important and measurable indicator of NET care quality Proportion of patients who see who see a NET specialist is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality Mort review is an important and measurable indicator of NET care quality  Froportion of patients who are discussed at MDM diagnosis evaluation in a multi-disciplinary clinic prior to first treatment Case discussed at MDM that include a diagnostic radiologist Mort will be following measures of multidisciplinary care are the most measurable indicators of NET care qu |    |  | Mortality at 30 days after surgery                                 |
| quality? Please choose two.  Median length of stay following metastatic resection Mortality at 30 days after surgery Mortality at 90 days after surgery Appropriate functional assessment Appropriate func |    |  | Mortality at 90 days after surgery                                 |
| Mortality at 30 days after surgery  Which pre-operative assessment is the most important and measurable indicator of NET care quality? Please choose one.  Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable ind | 56 |  | Median length of stay following primary resection                  |
| Mortality at 30 days after surgery  Which pre-operative assessment is the most important and measurable indicator of NET care quality? Please choose one.  Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete pre-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable indicator of NET care quality  Complete post-operative TNM staging is an important and measurable ind |    |  | Median length of stay following metastatic resection               |
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| Which pre-operative assessment is the most important indicator of NET care quality? Please choose one.  Appropriate functional assessment Appropriate indicational descense and indicational assessment Appropriate indicational assessment Appropriate indicational descense indicational | 57 | The quality of pre-operative assessment is an important and measurable indicator of NET care quality   | , , , , ,  |
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| Mylich pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.   Appropriate radiological assessment   |    |  |  |
| Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one.   Appropriate clinical assessment   Appropriate functional assessmen   |    |  |  |
| Appropriate functional assessment Appropriate radiological assessm | 59 | Which pre-operative assessment is the most measurable indicator of NET care quality? Please choose one |  |
| Appropriate radiological assessment  |    | Which pre operative decedement to the most induction of the Federal quality : Fidade choice one.       |  |
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| Do you have any additional comments? (not required)  Proportion of patients who see who see a NET specialist is an important and measurable indicator of NET care quality  Review by specialist (by any means including virtual review) at least annually is an important and measurable indicator of NET care quality  MDM review is an important and measurable indicator of NET care quality  Which of the following measures of multidisciplinary care are the most important indicators of NET care quality? Please choose three.  Proportion patients who are discussed at MDM at diagnosis Evaluation in a mUlti-disciplinary clinic prior to first treatment Evaluation in a most prior to first treatment Case discussed at MDM that include a diagnosit radiologist MDM issued grade and stage statement (TNM)  Clear documentation of MDM discussion with all stakeholders  Communication of tumour board consensus  Proportion patients who are discussed at MDM with any new recurrence  Which of the following measures of multidisciplinary care are the most measurable indicators of NET care quality? Please choose three.  Proportion of cases discussed at MDM  Proportion of cases discussed at MDM  Proportion patients who are discussed at MDM  Proportion patients who are discussed at MDM at diagnosis Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a  |    | Complete pre-operative TNM straing is an important and measurable indicator of NET are quality         |  |
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| Evaluation in a multi-disciplinary clinic prior to first treatment  Evaluation in a MDM prior to first treatment  Case discussed at MDM that include a diagnostic radiologist  MDM issued grade and stage statement (TNM)  Clear documentation of MDM discussion with all stakeholders   |    |  | Proportion patients who are discussed at MDM at diagnosis          |
| Evaluation in a MDM prior to first treatment  Case discussed at MDM that include a diagnostic radiologist  MDM issued grade and stage statement (TNM)  Clear documentation of MDM discussion with all stakeholders   |    |  | Evaluation in a multi-disciplinary clinic prior to first treatment |
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| MDM issued grade and stage statement (TNM)  Clear documentation of MDM discussion with all stakeholders  |    |  |  |
| Clear documentation of MDM discussion with all stakeholders  |    |  |  |
|  |    |  |  |
|  |    |  |  |

|   | Proportion patients who are discussed at MDM with any new recurrence   |
|---|--|
|   |  |
| Which of the following measures of pathology involvement in MDM review is the most important indicator of NET care quality? Please choose one.  | Proportion discussed at a MDM that includes a pathologist  |
|   | Proportion of cases with histology reviewed by a NET expert pathologist"   |
|   | Review by a specialist gastrointestinal "GI" pathologist   |
| Which of the following measures of pathology involvement in MDM review is the most measurable indicator of NET care quality? Please choose one. | Proportion discussed at a MDM that includes a pathologist  |
|   | Proportion of cases with histology reviewed by a NET expert pathologist  |
|   | Review by a specialist gastrointestinal "GI" pathologist   |
| Do you have any additional comments? (not required)   |  |
| The quality of pathology reports is an important and measurable indicator of NET care quality   |  |
| Which of the following pathology reporting measures are the most important indicators of NET care quality? Please choose three.                 | pTNM stage   |
|   | Margin   |
|   | Node   |
|   | Tumour size  |
|   | Depth of invasion  |
|   | Ki-67  |
|   | Mitotic rate   |
|   | Grade  |
|   | IHC (synaptophysin/chromogranin)   |
|   | Necrosis   |
|   | Differentiation  |
|   | LVI  |
|   | Site   |
| Which of the following pathology reporting measures are the most measurable indicators of NET care quality? Please choose three.                | pTNM stage   |
|   | Margin   |
|   | Node   |
|   | Tumour size  |
|   | Depth of invasion  |
|   | Ki-67  |
|   | Mitotic rate   |
|   | Grade  |
|   | IHC (synaptophysin/chromogranin)   |
|   | Necrosis   |
|   | Differentiation  |
|   | LVI  |
|   | Site   |
| Proportion of histopathology reports presented in a synoptic report is an important and measurable indicator of NET care quality                |  |
|   | Which of the following measures of pathology involvement in MDM review is the most measurable indicator of NET care quality? Please choose one.  Do you have any additional comments? (not required) The quality of pathology reports is an important and measurable indicator of NET care quality Which of the following pathology reporting measures are the most important indicators of NET care quality? Please choose three.  Which of the following pathology reporting measures are the most measurable indicators of NET care quality? Please choose three. |

| 76          | Complete synoptic reporting to College of American Pathologists standards is an important and measurable indicator of NET care quality   |   |
|-------------|--|---|
| 77          | A comprehensive but non-synoptic report is an important and measurable indicator of NET care quality                                     |   |
| 78          | Do you have any additional comments? (not required)  |   |
| 79          | Pathological classification based on ENETS staging is an important and measurable indicator of NET care quality                          |   |
| 80          | Proportion of NET patients with TNM staging at diagnosis is an important and measurable indicator of NET care quality                    |   |
| 81          | The use of which of the following TNM staging guidelines is the most important indicator of NET care quality? Please choose one.         | ENET guidelines                           |
|             |  | UICC guidelines                           |
| 82          | The use of which of the following TNM staging guidelines is the most measurable indicator of NET care quality? Please choose one.        | ENET guidelines                           |
|             |  | UICC guidelines                           |
| 83          | Do you have any additional comments? (not required)  |   |
| 84          | Proportion of patients with functional imaging in staging is an important and measurable indicator of NET care quality                   |   |
| 85          | If staging functional imaging is used, the use of which scans are the most important indicators of NET care quality? Please choose two.  | Any peptide receptor imaging              |
|             |  | FDG scan                                  |
|             |  | Ga68 DOTA tate PET                        |
|             |  | Octreoscan                                |
| 86          | If staging functional imaging is used, the use of which scans are the most measurable indicators of NET care quality? Please choose two. | Any peptide receptor imaging              |
|             |  | FDG scan                                  |
|             |  | Ga68 DOTA tate PET                        |
|             |  | Octreoscan                                |
| 87          | Proportion patients with structural imaging is an important and measurable indicator of NET care quality                                 |   |
| 88          | If structural imaging is used, which of the following are the most important indicators of NET care quality? Please choose three.        | Contrast CT scan                          |
|             |  | Liver MRI                                 |
|             |  | Echocardiogram                            |
|             |  | Triphasic CT prior to surgical resection  |
|             |  | Triphasic MRI prior to surgical resection |
|             |  | Endoscopic Ultrasound                     |
| 89          | If structural imaging is used, which of the following are the most measurable indicators of NET care quality? Please choose three.       | Contrast CT scan                          |
|             |  | Liver MRI                                 |
|             |  | Echocardiogram                            |
|             |  | Triphasic CT prior to surgical resection  |
|             |  | Triphasic MRI prior to surgical resection |
|             |  | Endoscopic Ultrasound                     |
| 90          | Proportion of radiology synoptic reporting is an important and measurable indicator of NET care quality                                  |   |
| 91          | Time from diagnosis to completion of staging is an important and measurable indicator of NET care quality                                |   |
| 92          | Appropriate radiological staging is an important and measurable indicator of NET care quality  |   |
| 93          | Do you have any additional comments? (not required)  |   |
| <del></del> | 30 you have any additional comments: (not required)  | <u>I</u>                                  |

| 105 | Recording of clinical examination details is an important and measurable indicator of NET care quality                                   |   |
|-----|--|---|
| 104 | Do you have any additional comments? (not required)  |   |
| 103 | Consideration of concurrent endocrine issues is an important and measurable indicator of NET care quality                                |   |
| 102 | Comprehensive assessment of baseline symptoms and symptom history is an important and measurable indicator of NET care quality           |   |
| 101 | Percent patients with clearly elicited and documented secretory symptoms is an important and measurable indicator of NET care quality    |   |
|     |  | Weight loss   |
|     |  | Comorbidities   |
|     |  | Functional symptoms                                       |
|     |  | Targeted family history                                   |
|     | select three.  | Family history  |
| 100 | If history is recorded, which of the following are the most measurable indicators of NET care quality? Please                            | Comprehensive history                                     |
|     |  | Weight loss   |
|     |  | Comorbidities   |
|     |  | Functional symptoms                                       |
|     |  | Targeted family history                                   |
|     |  | Family history  |
| 99  | If history is recorded, which of the following are the most important indicators of NET care quality? Please select three.               | Comprehensive history                                     |
| 98  | Recording of history is an important and measurable indicator of NET care quality  |   |
| 97  | Do you have any additional comments? (not required)  |   |
|     |  | Proportion with functional status assessed (biochemistry) |
|     |  | Ongoing biochemical monitoring                            |
|     |  | Appropriate biochemical staging                           |
|     |  | pNETs baseline biochemistry                               |
|     |  | Calcium level   |
|     |  | Urinary 5HIAA level with appropriate dietary restriction  |
|     |  | 5HIAA level   |
|     | quality? Please choose three.  | CgA with appropriate dietary restriction                  |
| 96  | If a biochemical workup is completed, which of the following are the most measurable indicators of NET care                              | CgA level   |
|     |  | Proportion with functional status assessed (biochemistry) |
|     |  | Ongoing biochemical monitoring                            |
|     |  | Appropriate biochemical staging                           |
|     |  | pNETs baseline biochemistry                               |
|     |  | Calcium level   |
|     |  | Urinary 5HIAA level with appropriate dietary restriction  |
|     |  | 5HIAA level   |
|     |  | CgA with appropriate dietary restriction                  |
| 95  | If a biochemical workup is completed, which of the following are the most important indicators of NET care quality? Please choose three. | CgA level   |
| 94  | Proportion who get biochemical functional workup is an important and measurable indicator of NET care quality                            |   |

| 106 | Which of the following examinations are the most important indicators of NET care quality? Please choose two.                         | ECOG  |
|-----|---|---|
|     |   | Weight  |
|     |   | Cardiac examination   |
|     |   | Comprehensive physical exam   |
| 107 | Which of the following examinations are the most measurable indicators of NET care quality? Please choose two.                        | ECOG  |
|     |   | Weight  |
|     |   | Cardiac examination   |
|     |   | Comprehensive physical exam   |
| 108 | Do you have any additional comments? (not required)   |   |
| 109 | Type of presentation (e.g. incidental, symptoms, etc) is an important and measurable indicator of NET care quality                    |   |
| 110 | Which of the following presentation types is the most important indicator of NET care quality? Please choose one.                     | Acute emergent presentation   |
|     |   | CT as incidental finding  |
|     |   | Familial screening or other screening programs (c-scope, g-scope)                 |
| 111 | Which of the following presentation types is the most measurable indicator of NET care quality? Please choose one.                    | Acute emergent presentation   |
|     |   | CT as incidental finding  |
|     |   | Familial screening or other screening programs (c-scope, g-scope)                 |
| 112 | Do you have any additional comments? (not required)   |   |
| 113 | Proportion of patients offered a clinical trial is an important and measurable indicator of NET care quality                          |   |
| 114 | Proportion of patients entered into a clinical trial is an important and measurable indicator of NET care quality                     |   |
| 115 | Proportion of patients whose tissue is banked is an important and measurable indicator of NET care quality                            |   |
| 116 | Do you have any additional comments? (not required)   |   |
| 117 | All cases reported to national registry is an important and measurable indicator of NET care quality                                  |   |
| 118 | Registry enrolment at diagnosis is an important and measurable indicator of NET care quality  |   |
| 119 | Do you have any additional comments? (not required)   |   |
| 120 | The proportion of patients receiving systemic treatment is an important and measurable indicator of NET care quality                  |   |
| 121 | Which of the following statements about systemic therapy are the most important indicators of NET care quality? Please choose three.  | Proportion of metastatic NET patients who are receiving targeted systemic therapy |
|     |   | Proportion of metastatic NET patients who are receiving chemotherapy              |
|     |   | Proportion of metastatic NET patients who are receiving PRRT                      |
|     |   | Proportion of metastatic NET patients who are receiving SSA                       |
|     |   | Proportion of patients who have had three or more lines of therapy                |
|     |   | Proportion of metastatic patients who receive 1st, 2nd, 3rd systemic therapy      |
|     |   | Proportion of patients with liver directed therapy                                |
|     |   | Proportion of patients with locoregional therapy                                  |
| 122 | Which of the following statements about systemic therapy are the most measurable indicators of NET care quality? Please choose three. | Proportion of metastatic NET patients who are receiving targeted systemic therapy |
|     |   | Proportion of metastatic NET patients who are receiving chemotherapy              |
|     |   | Proportion of metastatic NET patients who are receiving PRRT                      |

|     |   | Proportion of metastatic NET patients who are receiving SSA                               |
|-----|---|---|
|     |   | Proportion of patients who have had three or more lines of therapy                        |
|     |   | Proportion of metastatic patients who receive 1st, 2nd, 3rd systemic                      |
|     |   | therapy   |
|     |   | Proportion of patients with liver directed therapy  |
|     |   | Proportion of patients with locoregional therapy  |
| 123 | Which of the following statements about choice of systemic therapy is the most important indicator of NET care quality? Please choose one.        | Proportion of patients with treatment by guideline  |
|     |   | Proportion of patients who had access to proven therapy                                   |
|     |   | Proportion of patients offered all globally proven therapies and analysed by each therapy |
| 124 | Which of the following statements about choice of systemic therapy is the most measurable indicator of NET care quality? Please choose one.       | Proportion of patients with treatment by guideline  |
|     |   | Proportion of patients who had access to proven therapy                                   |
|     |   | Proportion of patients offered all globally proven therapies and analysed by each therapy |
| 125 | Do you have any additional comments? (not required)   |   |
| 126 | Ongoing radiological monitoring is an important and measurable indicator of NET care quality  |   |
| 127 | Imaging events after curative surgery is an important and measurable indicator of NET care quality  |   |
| 128 | Proportion of patients with bowel obstruction is an important and measurable indicator of NET care quality  |   |
| 129 | Which time points are the most appropriate to measure this? Please choose three.  | At diagnosis  |
|     |   | 1 year from diagnosis   |
|     |   | 2 years from diagnosis  |
|     |   | 3 years from diagnosis  |
|     |   | 4 years from diagnosis  |
|     |   | 5 years from diagnosis  |
|     |   | 6 years from diagnosis  |
|     |   | 7 years from diagnosis  |
|     |   | 8 years from diagnosis  |
|     |   | 9 years from diagnosis  |
|     |   | 10 years from diagnosis   |
|     |   | 15 years from diagnosis   |
|     |   | 20 years from diagnosis   |
| 130 | Do you have any additional comments? (not required)   |   |
| 131 | The proportion of patients who have unknown primary site of disease is an important and measurable indicator of NET care quality                  |   |
| 132 | Proportion of patients diagnosed by each specialty is an important and measurable indicator of NET care quality                                   |   |
| 133 | Proportion of patients with metastases at initial diagnosis is an important and measurable indicator of NET care quality                          |   |
| 134 | Do you have any additional comments? (not required)   |   |
| 135 | Thank you very much for the time taken to complete this survey, your input is greatly appreciated! Do you have any final comments? (not required) |   |

#### **Supplementary Material 5: Weighted score**

Participants were asked to rate appropriateness statements on a Likert scale of 1 = Highly inappropriate to 9 = Highly appropriate (5 = Uncertain).

| Rating score | Weighted multiplier |
|--------------|---------------------|
| 1            | -4                  |
| 2            | -3                  |
| 3            | -2                  |
| 4            | -1                  |
| 5            | 0                   |
| 6            | 1                   |
| 7            | 2                   |
| 8            | 3                   |
| 9            | 4                   |
|              |                     |

Each score was weighted based on the number of responses; weighted multiplier \* number of responses = weighted value.

The positive weighted values (corresponding to rating score of 6-9) were summed and divided by the number of responses.

To adjust for the total number of responses, this was multiplied by the ratio of positive (rating score 6-9): total number of responses, excluding uncertain ratings ("5").

Using a weighted average gave a sense of the level of agreement within the group, i.e. whether there were a high number of both high and low ratings, or whether there was strong consensus for an average rating.

# Supplementary Material 6: Round 2 – modified RAND/UCLA Delphi Consensus expert group ranking

As required by the modified Delphi method, a small expert group (see Supplementary Material 2.3) met to discuss appropriateness statements that had been top ranked in the Round 1 survey, and select a subset of final indicators by consensus. A reading pack had been distributed that included a reminder of the background to the project, methods of analysis and data presentation, and a summary of results for all statements The summary included a single bar chart for each statement showing the weighted appropriateness, with the positive and negative response presented separately for each statement. Round 1 responder comments from free-text survey fields were presented next to each relevant statement.

It was affirmed that disagreement was acceptable, the group was not forced to agree, but only statements with consensus would progress as NET QPIs. The videoconference was recorded by ZOOM, transcribed and combined with notes from three people taken during the meeting (KP, BL, BW). Following the meeting, a rating form was circulated online for ranking the draft indicators (n=16) by the expert group as appropriate, uncertain, or inappropriate. Each indicator was presented alongside the relevant discussion points raised during the teleconference. A comment field was offered after every indicator to ensure the working group were able to communicate their opinion clearly and ensure accurate feedback was received on the proposed indicator list. Final NET QPIs were chosen using a consensus threshold of 80%, as utilised in the previous CommNETs Delphi process.

## **Supplementary Material 7: Round 1 results index**

Asterisk (\*) indicates statements which were followed by sub-statements in a checkbox format.

| Appropriateness<br>Statement<br>Number | Statement   |
|--|---|
| Q72.                                   | The quality of pathology reports*   |
| Q16.                                   | Patient reported quality of life*   |
| Q68.                                   | Pathology involvement in MDM review*                                      |
| Q65.                                   | MDM review*   |
| Q87.                                   | Proportion patients with structural imaging*                              |
| Q92.                                   | Appropriate radiological staging  |
| Q84.                                   | Proportion of patients with functional imaging in staging*                |
| Q75.                                   | Proportion of histopathology reports presented in a synoptic report       |
| Q10.                                   | Survival after diagnosis*   |
| Q101.                                  | Percent patients with clearly elicited and documented secretory symptoms  |
| Q117.                                  | All cases reported to national registry                                   |
| Q63.                                   | Proportion of patients who see who see a NET specialist                   |
| Q118.                                  | Registry enrolment at diagnosis   |
| Q126.                                  | Ongoing radiological monitoring   |
| Q76.                                   | Complete synoptic reporting to College of American Pathologists standards |
| Q25.                                   | Measurement of quality of life*   |
| Q29.                                   | Proportion of patients with functional symptom control                    |
| Q102.                                  | Comprehensive assessment of baseline symptoms and symptom history         |
| Q33.                                   | Proportion of carcinoid patients who have cardiac imaging*                |
| Q94.                                   | Proportion who get biochemical functional workup*                         |
| Q98.                                   | Recording of history*   |
| Q54.                                   | Assessment of surgical quality*   |
| Q79.                                   | Pathological classification based on ENETS staging                        |
| Q61.                                   | Complete post-operative TNM staging                                       |
| Q14.                                   | Documentation of cause of death for patients who die from NETs            |
| Q60.                                   | Complete pre-operative TNM staging  |
| Q90.                                   | Proportion of radiology synoptic reporting                                |
| Q103.                                  | Consideration of concurrent endocrine issues                              |

| Q127. | Imaging events after curative surgery  |
|-------|--|
| Q57.  | The quality of pre-operative assessment*   |
| Q32.  | Proportion of NET patients diagnosed with carcinoid heart disease (using echocardiogram)             |
| Q80.  | Proportion of NET patients with TNM staging at diagnosis*  |
| Q45.  | The time interval from first doctors visit with symptoms of NET, to diagnosis of NET*                |
| Q120. | The proportion of patients receiving systemic treatment*   |
| Q113. | Proportion of patients offered a clinical trial  |
| Q40.  | Proportion of patients offered patient support groups  |
| Q91.  | Time from diagnosis to completion of staging   |
| Q49.  | Proportion of patients with surgical consultation for consideration of resection                     |
| Q64.  | Review by specialist (by any means including virtual review) at least annually                       |
| Q38.  | Proportion of patients receiving a treatment summary   |
| Q133. | Proportion of patients with metastases at initial diagnosis  |
| Q28.  | Proportion of patients who report they are NET symptom-free at 18 months using symptom questionnaire |
| Q30.  | Proportion of patients with non-functional symptom control   |
| Q39.  | Proportion of patients offered allied health services  |
| Q37.  | Proportion of patients receiving a care plan   |
| Q51.  | Proportion of patients who receive surgery with curative intent                                      |
| Q36.  | Proportion of patients receiving a needs assessment  |
| Q114. | Proportion of patients entered into a clinical trial   |
| Q105. | Recording of clinical examination details*   |
| Q42.  | The time interval until treatment is started*  |
| Q20.  | Surrogates for quality of life are important and measurable indicators of NET care quality*          |
| Q115. | Proportion of patients whose tissue is banked  |
| Q128. | Proportion of patients with bowel obstruction*   |
| Q52.  | Proportion patients who receive non-curative surgery   |
| Q131. | The proportion of patients who have unknown primary site of disease                                  |
| Q109. | Type of presentation (e.g. incidental, symptoms, etc)*   |
| Q50.  | Proportion of patients getting resection   |
| Q77.  | A comprehensive but non-synoptic report  |
| Q132. | Proportion of patients diagnosed by each specialty   |